

The Process of IEEE 802.16



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Chair

**IEEE 802.16 Working Group on
Broadband Wireless Access**

<http://WirelessMAN.org>

IEEE

- **Institute of Electrical and Electronics Engineers**
- **Non-profit technical professional society**
- **Transnational (global), with ~350,000 members**

The IEEE Standards Association

- **Responsible for standards within IEEE**
- **Worldwide**
- **Accredited by ANSI; this means**

Due Process

Openness

Consensus

Balance

Right of Appeal

Assured primarily through Balloting of drafts

IEEE 802 “LAN/MAN Standards Committee”

- **Local and Metropolitan Area Networks**
- **Wired**
 - **802.3: Ethernet**
 - **802.17: Packet Ring (new and meeting next door)**
- **Wireless**
 - **802.11: Wireless LAN**
Local Area Network
 - **802.15: Wireless PAN (inc. Bluetooth™)**
Personal Area Network
 - **802.16: WirelessMAN™**
Metropolitan Area Networks
- **Weeklong sessions 3 times a year (~1000 people)**
- **Strong rules ensure openness and consensus during development**

IEEE 802.16

- **Fixed Broadband Wireless Access**
- **In existence since May 1999**
- **Weeklong sessions every two months**
Session #11: next week in Ottawa
- **134 Members**
- **62 Official Observers**
- **>500 different individuals have attended a session**
- **211 attendees at last session**
- **2.8 Million file downloads last year**
inc. > 20,000 copies of air interface document
- **Active Liaison relationships with other standards bodies**

IEEE 802.16 Projects

Air Interface (PHY and MAC)

- **Task Group 1: 10-66 GHz**
 - **Draft in revision**
- **Task Group 3: 2-11 GHz, licensed**
 - **20 proposals aired in November 2000**
- **Task Group 4: license-exempt, 5-6 GHz**
 - **“WirelessHUMANTM”**
 - **Chartered in December 2000**
 - **17 proposals scheduled for next week**

Coexistence (within 10-66 GHz)

- **Task Group 2**
 - **Finalizing Working Group draft next week**

The IEEE 802 Process

Timeline:

0) Study Group

- **Develops plan to standardize**

1) Find Consensus on initial draft

- **May begin with studying Functional Requirements**
- **Call for proposals**
- **Merge and consolidate; some voting**

2) Refine the draft until approved

- **Formal comment and letter-ballot process**
- **All encouraged to read and submit corrections**
- **Track and resolve hundreds of comments**

Participation in IEEE 802.16

Anyone may:

- **Attend and participate in meetings**
- **Subscribe to mailing lists and read list archives**
- **Post to mailing lists**
- **Examine documents (subject to copyright issues)**
- **Contribute and comment on documents**
- **Join the Sponsor Balloting Pool**

Vote and comment on draft standards

Membership

- **Earned through attendance**
- **Belongs to the individual (802 rule)**
no formal company participation

Philosophy on Participation

You are welcome to participate

This will take work on your part.

You are welcome not to participate.

Decide whether you believe that standardization will help you.

We do not expect people to act contrary to their own interests.

- **We do not request altruism.**
- **We (legally) channel everyone's best interest for common gain.**

IEEE 802.16

“Meet and Greet” Session

Today, 3:15-4:15 pm
Santa Clara Room

Meet participants

See drafts



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